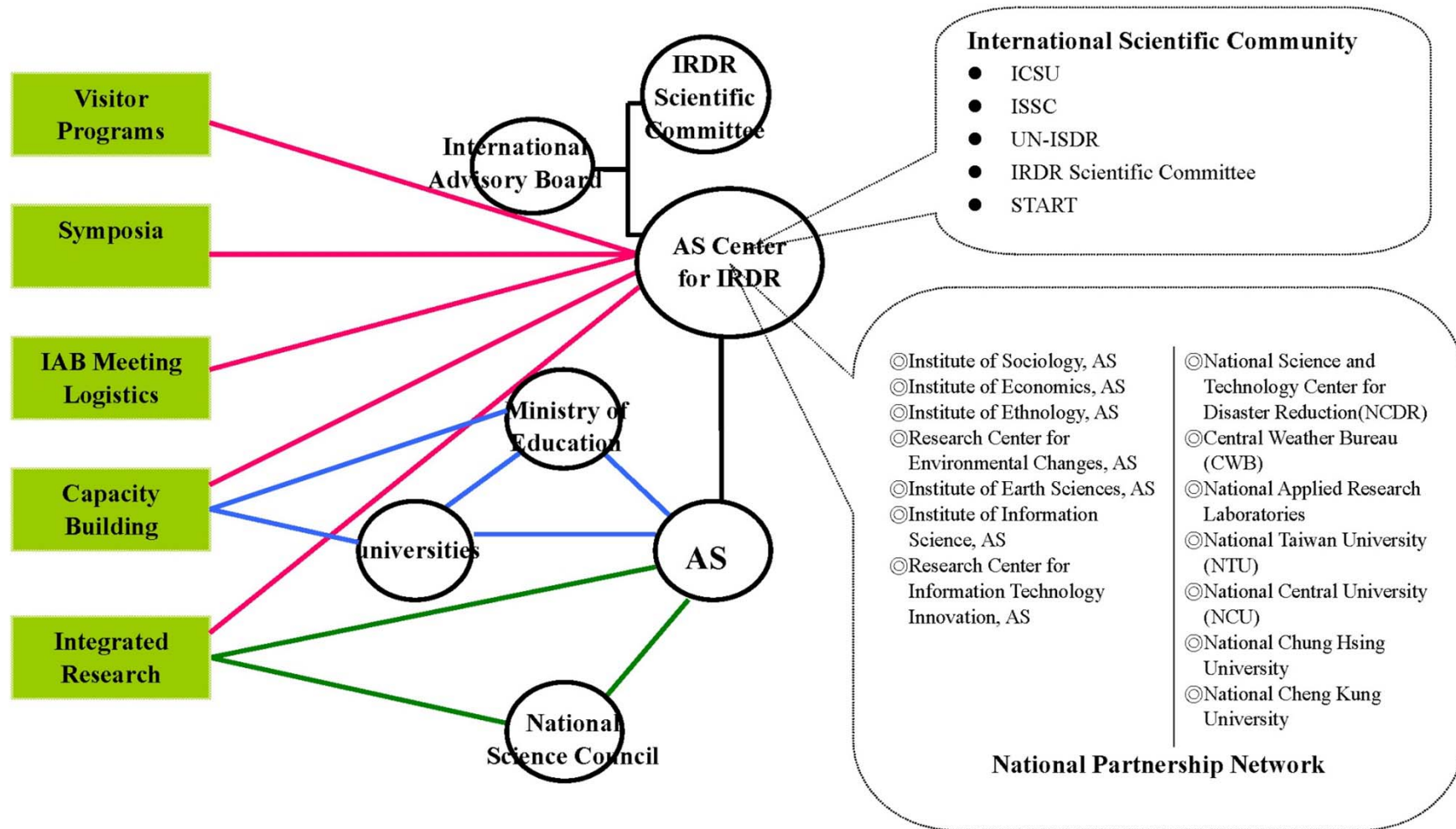


# **IRDR International Centre of Excellence**

- **Agreement between Academia Sinica, located in Taipei and the International Council for Science**
- **The Centre shall serve as a global platform for conducting disaster risk reduction research, using an integrated multi-disciplinary approach from the perspective of both of the natural and social sciences.**
- **exchange of scholars to between research institutions, the exchange of ideas and information, collaborative research, and education and training.**
- **The Centre will have both domestic and international components. The domestic component will consist of a strong cadre of disaster risk reduction academics and researchers from universities, academies of science, institutes and centres within the host country. The international component will consist of short- and longer-term (6-12 month) visiting scientists from developed and developing countries and support to host workshops, colloquia and scientific meetings that bring together scientists on, for example, forensic investigations.**

## Framework for the Operation of AS Center for IRDR



## **Member List for IAB of IRDR ICoE**

**Dr. Gordon McBean**

**Dr. Hassan Virji**

**Executive Director of START**

**International START Secretariat**

**Dr. Kuniyoshi Takeuchi**

**Director of International Centre for Water Hazard Risk Management**

**Dr. Mohd. Nordin Hasan**

**Director of ICSU Regional Office for Asia and the Pacific**

**President Dr. Wen-Hwa Chen**

**National Applied Research Laboratories**

**President Dr. Wei-Ling Chiang**

**National Central University**

**Chairman Dr. Ching-Yen Tsay**

**Industrial Technology Research Institute**

# Goal

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- Serve as an international platform for conducting integrated research on disaster risk from both the natural and social science perspectives
- Establish a partnership network of disaster reduction research within Taiwan as well as international scientific community

# Programs

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## ◆ Visitor Program

- ◆ Host short- and long-term visiting scientists

## ◆ Symposia

- ◆ Organize workshops and scientific meetings

## ◆ Integrated Research Programs

- ◆ Conduct integrated research

# Programs

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- Capacity Building
  - Cooperate with International organizations, esp. START
- IAB Meeting
  - Call IAB meetings and consult with Board members in regard to scientific issues





# Cities at Risk Building Adaptive Capacities for Managing Climate Change Risks in Asian Coastal Cities (CAR II)

11-13 April 2011, The Academy of Sciences located in Taipei



EAST-WEST CENTER

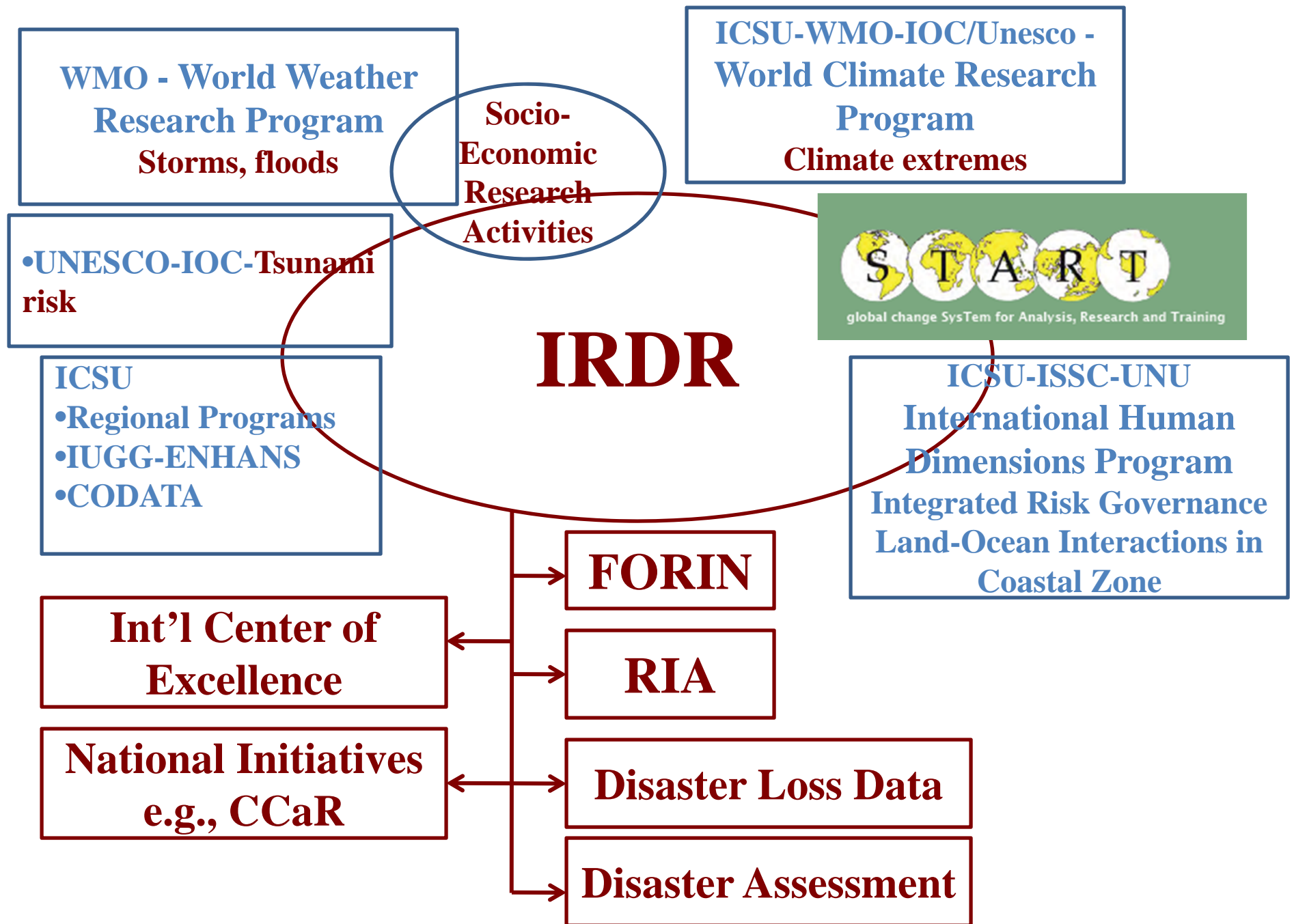


# CITIES AT RISK CONFERENCE II

- April 11-13, 2011
- **Conference - key themes:**
  - (i) Knowledge base for Risk Characterization and Communication;
  - (ii) Assessing Risk and Vulnerabilities;
  - (iii) Developing Urban Adaptation Strategies;
  - (iv) Adaptation Measures and Practices.
- **Outputs**
  - Monograph
  - A multi-authored review paper for a journal
- **Outcomes**
  - consolidated network of city-based teams working on CAR issues
  - number of follow-on actions/activities (e.g., CCAR/IDRC; CAR/USAID; other, such as ICE/IRDR?) and identification of a capacity building
  - research effort at ICE/IRDR

# ICoE Programs

- Taipei centre
  - \$300k per year
    - 2 workshops – per year
    - Senior visiting scientists + capacity building, young scientists
    - Links to: FORIN, RIA, social governance, open information systems for disaster management
    - Intersections of hazards and major technologies
- New ICoE
  - Where, when, model, process ?



Coastal Cities at Risk (CCaR):  
Building Adaptive Capacity for  
Managing Climate Change in Coastal  
Megacities

# Principal Investigators

- Professor Anond Snidvongs, Chulalongkorn University and Southeast Asia START Regional Research Center (SEA-START)
- Professor Gordon McBean, CM, FRSC, The University of Western Ontario, London, Canada

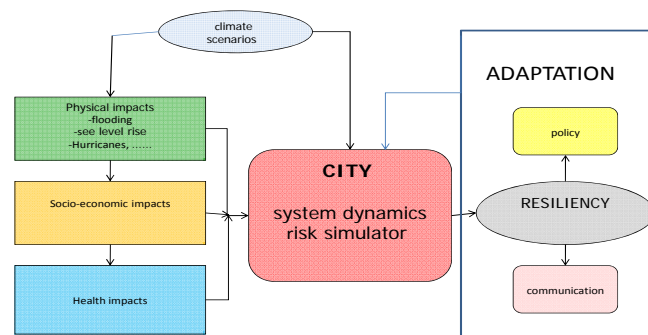
# Objectives

- **A. Advance knowledge of climate change adaptation and disaster risk reduction:**
  - A1. Characterize climate-related hazards, vulnerability and risk;
  - A2. Understand decision making processes in governance and society; and
  - A3. Define, qualify and quantify the relationships between climate impacts, adaptation strategies and socio-economic implications.
- **B. Develop strategies and methodologies for climate change adaptation:**
  - B1. Integrate adaptation and disaster risk reduction strategies and knowledge-based actions; and
  - B2. Construct interdisciplinary simulation models to develop, test and validate these knowledge-based actions.
- **C. Enhance practitioner and academic capacity and transfer knowledge:**
  - C1. Increase the numbers of highly-qualified people in Canada and abroad by mobilizing, exchanging, and translating knowledge; and
  - C2. Transfer knowledge and capacity to a broad selection of communities and situations through workshops, effective communications, and parallel and follow-on projects with partners.

- **Theme 1 - Characterization of vulnerability and risk** – personal, health, economic; and response strategies: climate change adaptation, resilience, insurance – theme leaders: Adelekan and Davies with Lannigan, Loyzaga, Mortsch, Porio, Mills, Kovacs, Hutanuwatr, Wahab and Salamanca
- **Theme 2 - Characterization of hazards** – cyclones-typhoons – wind and precipitation; flooding – riverine and coastal; sea level rise – theme leaders: Stewart and Perez with Simonovic, Whitfield, Snidvongs, Mortsch, Trisirisatayawong and Vicente



- **Theme 3 - Understanding decision making** in governance and society – political, economic, social factors - theme leaders: Burton and Loyzaga with McBean, Snidvongs, Adelekan, Mills and Marome
- **Theme 4 - City System Dynamics Risk Simulator** – theme leaders: Simonovic, Davies, Lannigan, Snidvongs, Wahab, Marome, and Vicente



- **Theme 5 - Response strategies leading to Knowledge-based Actions** - theme leaders: Snidvongs, McBean and all the team.
- **Theme 6 - Knowledge Transfer and Capacity Building**— theme leaders: McBean, Snidvongs, Harford, and all the team.
- Large coastal cities on river deltas
- Vancouver, Bangkok, Manila, Lagos
- \$2.5m over 5 years